P10/5=003 (200-00)
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UTILITY PATENT APPLICATION **TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR § 1.53(b))

Attorney Docket No.		1857.1860000				
First In	ventor	Pradeep K. Govil				
Title	Deformable i	Mirror Using Piezoelectric Actuators Formed ted Circuit and Method of Use				

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	APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents.	ADDRESS TO: Commissioner for Patents Mail Stop Patent Application P.O. Box 1450 Alexandria VA 22313-1450						
1. [2	(Submit an original, and a duplicate for fee processing)	 CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix) Nucleotide and/or Amino Acid Sequence Submission 						
2. [See 37 CFR 1.27.	 (if applicable, all necessary) a. Computer Readable Form (CRF) b. Specification Sequence Listing on: 						
	(preferred arrangement set forth below) - Descriptive title of the Invention	i. CD-ROM or CD-R (2 copies); or						
	- Cross Reference to Related Applications - Statement Regarding Fed sponsored R & D	ii. paper						
	Reference to sequence listing, a table, or a computer program listing appendix Background of the Invention	c. Statements verifying identity of above copies						
	- Brief Summary of the Invention - Brief Description of the Drawings (if filed)	ACCOMPANYING APPLICATION PARTS						
	- Detailed Description - Claim(s) - Abstract of the Disclosure	9. Assignment Papers (cover sheet & document(s))						
4. 🔀	Drawing(s) (35 U.S.C. 113) [Total Sheets 3]	10. 37 CFR 3.73(b) Statement Power of Attorney (when there is an assignee)						
5. O	ath or Declaration [Total Pages 2]	11. English Translation Document (if applicable)						
	a. Newly executed (original or copy)	12.						
	b. Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional with Box 18 completed)	13. Preliminary Amendment						
	i. DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR §§	14. Two Return Receipt Postcards (MPEP 503) (Should be specifically itemized)						
	1.63(d)(2) and 1.33(b).	15. Certified Copy of Priority Document(s) (if foreign priority is claimed)						
6. 🔀	Application Data Sheet. See 37 CFR 1.76.	16. Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must atta form PTO/SB/35 or its equivalent.						
	* ()	17. Other: Authorization under 37 C.F.R. § 1.136(a)(3)						
		Other: The name of the assignee is: ASML Holding N.V.						
18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:								
	Continuation Divisional Continuation-in-Part (Cli Prior application information: Examiner	CIP) of prior application No: / Group/Art Unit:						
consi	For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.							
	19. CORRESPONDENCE ADDRESS							
×	Customer Number 26111	or Correspondence address below						
NAN								
ADL	Attorneys at Law ORESS							
<u> </u>	CITY STATE ZIP CODE							
COL	COUNTRY TELEPHONE FAX							
NAN	NAME (Print/Type) Jason D. Eisenberg () Registration No. (Attorney/Agent) 43,447							
SIG	NATURE YEAR / OUT	Date 9 30 0 3						

This collection of information,'s required by 37 CFR 1.63(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, Patent and Trademark Officer PO Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:: Mail Stop Patent



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*Admitted only in Maryland * Admitted only in Virginia •Practice Limited to Federal Agencies

July 30, 2003

WRITER'S DIRECT NUMBER: (202) 772-8645 INTERNET ADDRESS: JASONE@SKGF.COM

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Mail Stop Patent Application

Re:

U.S. Non-Provisional Utility Patent Application under 37 C.F.R. § 1.53(b)

Appl. No. To be assigned; Filed: Herewith on July 30, 2003

For: Deformable Mirror Using Piezoelectric Actuators Formed as an

Integrated Circuit and Method of Use

Inventor(s):

Pradeep K. Govil et al.

Our Ref:

1857.1860000

Sir:

The following documents are forwarded herewith for appropriate action by the U.S. Patent and Trademark Office:

- 1. PTO Fee Transmittal (Form PTO/SB/17);
- 2. Form PTO-2038 Credit Card Payment Form;
- 3. PTO Utility Patent Application Transmittal (Form PTO/SB/05);
- 4. Authorization to Treat a Reply as Incorporating an Extension of Time under 37 C.F.R. § 1.136(a)(3);
- 5. Recordation Form Cover Sheet;
- 6. An original executed Assignment to <u>ASML Holding N.V.</u>, recordation of which is hereby respectfully requested;
- 7. U.S. Utility Patent Application entitled:

Deformable Mirror Using Piezoelectric Actuators Formed as an Integrated Circuit and Method of Use

Sterne, Kessler, Goldstein & Fox P.L.L.C.: 1100 New York Avenue, NW: Washington, DC 20005: 202.371.2600 f 202.371.2540: www.skgf.com



Commissioner for Patents July 30, 2003 Page 2

and naming as inventors:

Pradeep K. Govil Andrew Guzman

the application consisting of:

- a. An Application Data Sheet (37 C.F.R. § 1.76);
- b. A facsimile copy of an original executed Declaration;
- c. A specification containing:
 - i. 9 pages of description prior to the claims;
 - ii. 5 pages of claims (27 claims, 3 independent);
 - iii. a one (1) page abstract;
- d. 3 sheet(s) of drawings: (Figure(s) 1-3); and
- 8. Two (2) return postcards.

It is respectfully requested that, of the two attached postcards, one be stamped with the filing date of these documents and returned to our courier, and the other, prepaid postcard, be stamped with the filing date and unofficial application number and returned as soon as possible.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Jason D. Eisenberg

Attorney for Applicants

Registration No. 43,447

JDE/mmb SKGF_DC1:161659.1

Sterne, Kessler, Goldstein & Fox P.L.C.: 1100 New York Avenue, NW: Washington, DC 20005: 202.371.2600 f 202.371.2540: www.skgf.com

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FEE TRANSMITTAL for FY 2003

Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$)916.00

Complete if Known						
Application Number	To be assigned					
Filing Date	Herewith on July 30, 2003					
First Named Inventor	Pradeep K. G vil					
Examiner Name	To be assigned					
Art Unit	To be assigned					
Attorney Docket No.	1857.1860000					

METHOD OF PAYMENT (check all that apply)	FEE CALCULATION (continued)							
	3. ADDITIONAL FEES							
☐ Check ☐ Credit card ☐ Money Order ☐ Other** ☐ None ** Charge any deficiencies or credit any overpayments in the fees or fee calculations of Parts 1, 2 and 3 below to Deposit Account No. 19-0036.	Large Entity Small Entity							
Deposit Account Deposit Account 19-0036		Fee Fee (\$) Cod			Fee Description		Fee Pald	
Deposit Account Name: Sterne, Kessler, Goldstein & Fox P.L.L.C.	1051	130	2051	65	Surcharge - late filing fe	ee or oath		
The Commissioner is authorized to: (check all that apply)	1502	50	2052	25	Surcharge-late provision sheet			
☐ Charge fee(s) indicated below ☐ Credit any over payments	1053	130	1053	130	Non-English specification			
Charge any additional fee(s) during the pendency of this	1812	2,520		2,520	For filing a request for ex parte reexamination			
application	1804	920*		920*	Requesting publication		en l	
Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.	1805	1,840*		1,840*	action Requesting publication	·		
*				-	action			
	1251	110	2251	55	Extension for reply within	in first month		
	1252	410	2252	205	Extension for reply within	in second month		
FEE CALCULATION	1253	930	2253	465.	Extension for reply within	in third month		
1. BASIC FILING FEE	1254	1,450	2254	725	Extension for reply within	in fourth month		
Large Entity Small Entity	1255	1,970	2255	985	Extension for reply within	in fifth month		
Fee Fee Fee Fee Fee Description Fee Paid Code (\$) Code (\$)	1401	320	2401	160	Notice of Appeal			
1001 750 2001 375 Utility filing fee 750.00	1402	320	2402	160	Filing a brief in support	of an appeal		
1002 330 2002 165 Design filing fee	1403	280	2403	140	Request for oral hearing	g [©]		
1003 520 2003 260 Plant filing fee	1451	1,510	1451	1,510	Petition to institute a pu	Petition to institute a public use proceeding		
1004 750 2004 375 Reissue filing fee	1452	110	2452	55	Petition to revive - unavoidable			
1105 160 2005 80 Provisional filing fee	1453	1,300	2453	650	Petition to revive - unint			
SUBTOTAL (1) (\$) 750.00	1501	1,300	2501	650	Utility issue fee (or reiss	sue)		
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE	1502	470	2502	235	Design issue fee			
Fee from Extra below Fee Paid	1503	630	2503	315	Plant issue fee			
Total Claims <u>27</u> - 20** = <u>7</u> X <u>18</u> = <u>126.00</u>	1460	130	1460	130	Petitions to the Commis	ssioner	8	
Indep. Claims 3 - 3** = 3 X 84 =	1					•		
Multiple Dependent =	1807	50	1807	50	Processing fee under 3	7 CFR 1.17(q)		
Large Entity _I Small Entity	1806	180	1806	180	Submission of Informati	ion Disclosure Stmt		
Fee Fee Fee Fee Description Code (\$)	8021	40	8021	40	Recording each patent property (times number	assignment per of properties)	40.00	
1202 18 2202 9 Claims in excess of 20	1809	750	2809	375	Filing a submission afte		R	
1201 84 2201 42 Independent claims in excess of 3	1810	750	2810	375	1.129(a)) For each additional inve	ention to be examined		
1203 280 2203 140 Multiple dependent claim, if not paid 1204 84 2204 42 **Reissue independent claims	1				For each additional inve (37 CFR 1.129(b))			
over original patent	1801	750	2801	375	Request for Continued	•		
1205 18 2205 9 **Reissue claims in excess of 20	1802	900	1802	900	Request for expedited e application	examination of a desig	n	
and over original patent		Other fee (specify)					<u> </u>	
SUBTOTAL (2) (\$)126.00	{ .	uced by		Filina F	ee Paid	SUBTOTAL (3) (\$)	40.00	
**or number previously paid, if greater; For Reissue, see above								
SUBMITTED BY	7					Complete (if applicable)	,	
Name (Print/Type) Jason (2) Eisenberg	Regist (Attori	tration N ney/Agei	o. nt)		43,447	Telephone 202-3	71-2600	
Signature United Signature (MARMING: Information of this form on						Date 7	0/03	



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Pradeep K. Govil

Appl. No. To be assigned

Filed: Herewith on July 30, 2003

For:

Deformable Mirror Using

Piezoelectric Actuators Formed as an Integrated Circuit and Method

of Use

Confirmation No. To be assigned

Art Unit: To be assigned

Examiner: To be assigned

Atty. Docket: 1857.1860000

Authorization to Treat a Reply as Incorporating an Extension of Time under 37 C.F.R. § 1.136(a)(3)

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Sir:

The U.S. Patent and Trademark Office is hereby authorized to treat any concurrent or future reply that requires a petition for an extension of time under this paragraph for its timely submission, as incorporating a petition for extension of time for the appropriate length of time. The U.S. Patent and Trademark Office is hereby authorized to charge all required extension of time fees to our Deposit Account No. 19-0036, if such fees are not otherwise provided for in such reply.

Respectfully submitted,

Jason D. Eisenberg Attorney for Applicant Registration No. 43,447

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Date:

7/30/03

1100 New York Avenue, N.W. Washington, D.C. 20005-3934 (202) 371-2600 JDE/mmb SKGF DCI:161667.1